CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

12th July 2016

Dear Sir,

Sub: Improvements to Roads & Drains at Devappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Roopa. G

CIVIL TECH LABS BANGALORE

(ROOPA G.)
Technical Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.08 X 150.06 X 150.0	22521	13/06/2016	11/07/2016	28	8.20	495	**22.00**	**21.63**
2		150.02 X 150.03 X 150.0	22508				8.19	480	**21.33**	
3		150.06 X 150.04 X 150.0	22515				8.21	485	**21.56**	

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

AEE (VRP) SD

Roopa.G

(ROOPA G.)
Technical Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.06 X 150.03 X 150.0	22514	13/06/2016	11/07/2016	28	8.22	505	**22.44**	**22.22**
2		150.04 X 150.02 X 150.0	22509				8.21	500	**22.22**	
3		150.03 X 150.04 X 150.0	22511				8.18	495	**22.00**	

Note:

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Roopa G.

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Technical Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.06 X 150.03 X 150.0	22514	13/06/2016	11/07/2016	28	8.17	505	**22.44**	**22.00**
2		150.04 X 150.02 X 150.0	22509				8.18	485	**21.56**	
3		150.02 X 150.04 X 150.0	22509				8.20	495	**22.00**	

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AEE (VRP) SD

Roopa. G

(ROOPA G.)
Technical Manager

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.03 X 150.05 X 150.0	22512	13/06/2016	11/07/2016	28	8.19	495	**22.00**	**21.93**
2		150.02 X 150.04 X 150.0	22509				8.17	485	**21.56**	
3		150.01 X 150.02 X 150.0	22505				8.20	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.04 X 150.05 X 150.0	22514	14/06/2016	12/07/2016	28	8.21	510	**22.67**	**22.22**
2		150.02 X 150.01 X 150.0	22505				8.19	490	**21.78**	
3		150.03 X 150.02 X 150.0	22508				8.20	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.04 X 150.02 X 150.0	22509	14/06/2016	12/07/2016	28	8.19	480	**21.33**	**21.70**
2		150.02 X 150.06 X 150.0	22512				8.20	485	**21.56**	
3		150.03 X 150.04 X 150.0	22511				8.21	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.04 X 150.03 X 150.0	22511	14/06/2016	12/07/2016	28	8.21	495	**22.00**	**21.63**
2		150.03 X 150.01 X 150.0	22506				8.19	485	**21.56**	
3		150.02 X 150.04 X 150.0	22509				8.20	480	**21.33**	

Note:

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AEE (VRP) SD

Roopa. G

(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Pavement
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm²)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	Sample-4	150.02 X 150.01 X 150.0	22505	14/06/2016	12/07/2016	28	8.21	505	**22.44**	**22.07**
2		150.04 X 150.03 X 150.0	22511				8.22	500	**22.22**	
3		150.05 X 150.04 X 150.0	22514				8.19	485	**21.56**	

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AEE (VRP) SD

Roopa. G

(ROOPA G.)
Technical Manager

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CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

03rd June 2016

Dear Sir,

Sub: Testing of Materials.

As requested, tests on physical properties were carried out for the Materials supplied by you, for the work of **'Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

Roopa.G
(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS
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Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON COARSE AGGREGATES 40mm ↓ Graded

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Date of Testing	03/06/2016
Specific Gravity	**2.66**
Water Absorption	**0.29%**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	**100**	100	**Satisfies the requirement**
40	**99.2**	95-100	
20	**55.3**	30-70	
10	**26.2**	10-35	
4.75	**3.5**	0-5	

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AEE (VRP) SD

Roopa. G

(ROOPA G.)
Technical Manager

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CTL CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

GRADATION TEST ON FINE AGGREGATES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Date of Testing	03/06/2016
Specific Gravity	**2.56**
Technical Reference	IS : 2386(Part I)–1963 (Reaffirmed 2011), IS : 2386 (Part III)–1963 (Reaffirmed 2011)

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)				Grading Zone	Remarks
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV		
River Sand	10	**100**	100	100	100	100	II	Satisfies the requirement
	4.75	**99.2**	90-100	90-100	90-100	95-100		
	2.36	**88.3**	60-95	75-100	85-100	95-100		
	1.18	**76.1**	30-70	55-90	75-100	90-100		
	0.6	**49.3**	15-34	35-59	60-79	80-100		
	0.3	**26.2**	5-20	8-30	12-40	15-50		
	0.15	**7.6**	0-10	0-10	0-10	0-15		

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AEE (VRP) SD

Roopa. G

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Technical Manager

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of the Agency	Sri. K. Shankarreddy
Date of Testing	03/06/2016

Tests	**Test Method As Per IS & Apparatus**		**Results**		**Requirements As Per IS 8112:1989**	**Remarks**
	IS Code	**Method**	**Value**	**Unit**		
Initial Setting Time	**IS-4031 (Part-5) 1988**	VICAT	52	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	**IS-4031 (Part-5) 1988**	VICAT	489	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	**IS-4031 (Part-3) 1988**	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

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AEE (VRP) SD

Roopa G

(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of the Agency	Sri. K. Shankarreddy
Date of Testing	03/06/2016
Grade of Steel	Fe - 500.

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.9	12	Satisfactory
5	Yield Stress(N/Sq.mm)	511	500	Satisfactory
6	U T S (N/Sq.mm)	568	545	Satisfactory

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AEE (VRP) SD

Roopa. G

CIVIL TECH LABS BANGALORE

(ROOPA G.)
Technical Manager

CIVIL TECH LABS

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

To,

Assistant Executive Engineer,
Vidyaranyapura Sub Division,
BBMP.

14th July 2016

Dear Sir,

Sub: Improvements to Roads & Drains at Devappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Reports of the above.

Thanking you,

For Civil Tech Labs,

Roopa.G

(ROOPA G.)
Technical Manager

CIVIL TECH LABS BANGALORE

AEE (VRP) SL

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-1	150.03 X 150.01 X 150.0	22506	16/06/2016	14/07/2016	28	8.22	510	**22.67**	**22.30**
2		150.02 X 150.02 X 150.0	22506				8.19	495	**22.00**	
3		150.04 X 150.03 X 150.0	22511				8.21	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-2	150.02 X 150.01 X 150.0	22505	16/06/2016	14/07/2016	28	8.21	495	**22.00**	**21.56**
2		150.03 X 150.02 X 150.0	22508				8.18	475	**21.11**	
3		150.04 X 150.03 X 150.0	22511				8.19	485	**21.56**	

Note:

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-3	150.02 X 150.01 X 150.0	22505	16/06/2016	14/07/2016	28	8.18	475	**21.11**	**21.48**
2		150.03 X 150.02 X 150.0	22508				8.19	490	**21.78**	
3		150.04 X 150.03 X 150.0	22511				8.21	485	**21.56**	

Note:

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2. Report shall not be reproduced except in full, without the written approval of the lab.
3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the customer.

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-4	150.05 X 150.04 X 150.0	22514	16/06/2016	14/07/2016	28	8.18	485	**21.56**	**21.93**
2		150.03 X 150.02 X 150.0	22508				8.19	495	**22.00**	
3		150.04 X 150.02 X 150.0	22509				8.20	500	**22.22**	

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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Vidyaranyapura Sub Division, BBMP.
Name of Work	Improvements to Roads & Drains atDevappa layout , Mariyamma Block, Doddachennappa layout, Raghuram layout in ward no. 11, Vidyaranyapura Sub Division.
Name of Agency	Sri. K. Shankarreddy
Grade of Concrete	M-20
Location	Drain
No. of cubes tested	3
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	ID	Dimension of specimen (mm)	Cross sectional area (mm^2)	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm^2)	Avg Compressive Strength (N/mm^2)
1	Sample-5	150.03 X 150.02 X 150.0	22508	16/06/2016	14/07/2016	28	8.21	495	**22.00**	**21.70**
2		150.04 X 150.03 X 150.0	22511				8.19	490	**21.78**	
3		150.05 X 150.02 X 150.0	22511				8.20	480	**21.33**	

Note:

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